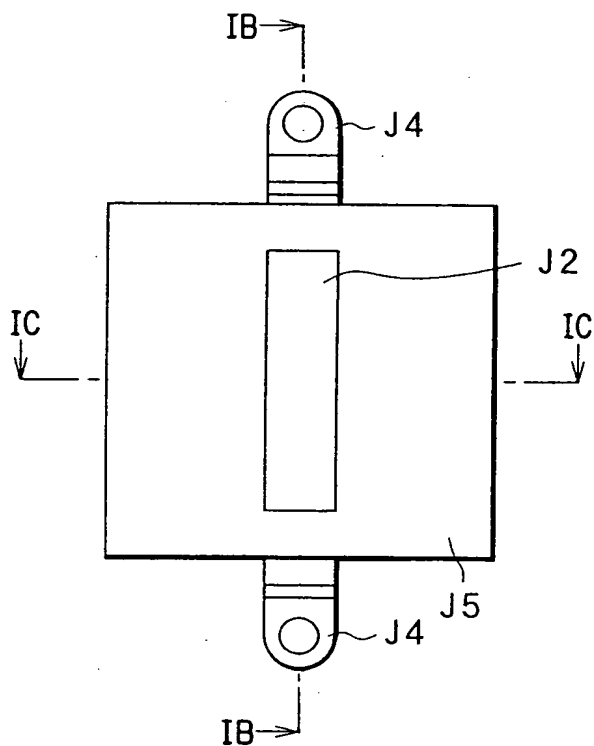


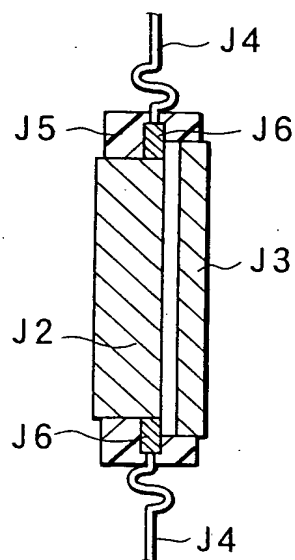
**FIG. 1A**

PRIOR ART



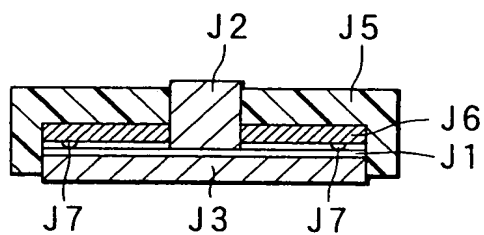
**FIG. 1B**

PRIOR ART

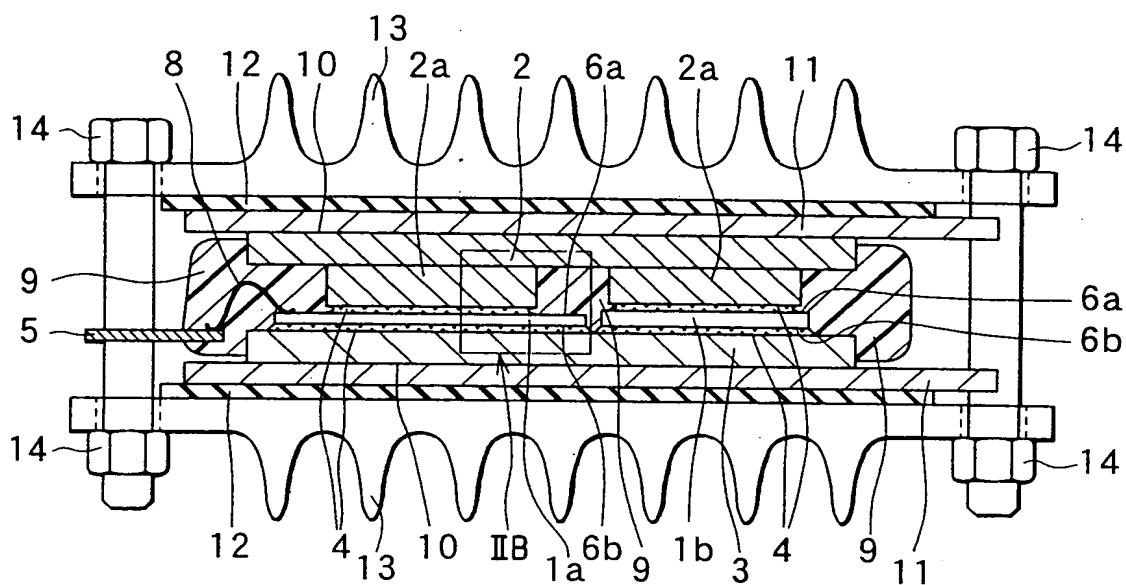


**FIG. 1C**

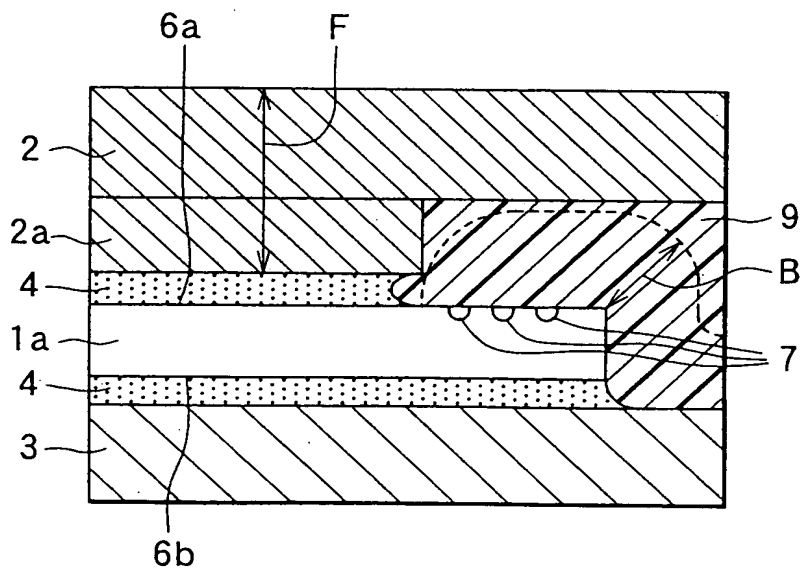
PRIOR ART



# FIG. 2A



# FIG. 2B



# FIG. 3

| NAME OF METAL | CHEMICAL COMPOSITION (%) |             |                |            |             |             |              |              |              |      |              |      |             |         |
|---------------|--------------------------|-------------|----------------|------------|-------------|-------------|--------------|--------------|--------------|------|--------------|------|-------------|---------|
|               | Fe                       | Zn          | P              | Ni         | Si          | Sn          | NiB          | Mn           | Mg           | Cr   | Ti           | B    | Cu          | Al      |
| METAL a       | 2.3                      | 0.1         | 0.03           |            |             |             |              |              |              |      |              |      | REMAIN.     |         |
| METAL b       | 2.4                      | 0.12        | 0.03           |            |             |             |              |              |              |      |              |      | REMAIN.     |         |
| METAL c       |                          |             |                | 3.0        | 0.7         |             |              |              |              |      |              |      | REMAIN.     |         |
| METAL d       | 1.5                      | 0.5         |                |            |             | 0.5         |              |              |              |      |              |      | REMAIN.     |         |
| METAL e       | 1.0                      | 0.05        | 0.1            |            |             | 1.0         |              |              |              |      |              |      | REMAIN.     |         |
| METAL f       | 0.75                     |             | 0.03           |            |             | 1.25        |              |              |              |      |              |      | REMAIN.     |         |
| METAL g       | 0.05<br>0.15             |             | 0.025<br>0.040 |            |             |             |              |              |              |      |              |      | REMAIN.     |         |
| METAL h       | 0.05<br>0.4              |             | 0.05<br>0.1    |            |             | 0.05<br>0.2 | 0.05<br>0.45 |              |              |      |              |      | REMAIN.     |         |
| METAL i       |                          |             | 0.15 OR LOWER  | 0.1<br>0.4 |             | 1.7<br>2.3  |              |              |              |      |              |      | REMAIN.     |         |
| METAL j       |                          | 0.2<br>0.35 |                | 3.0<br>3.4 | 0.6<br>0.75 | 1.0<br>1.5  |              |              |              |      |              |      | REMAIN.     |         |
| METAL k       | 0.12<br>1.0              | 0.03<br>0.1 |                |            | 0.1<br>1.0  |             |              | 0.02<br>0.05 | 0.02<br>0.05 |      | 0.02<br>0.05 |      | 0.03<br>0.2 | REMAIN. |
| METAL l       | 0.5                      | 0.1         |                |            | 0.3<br>0.7  |             |              | 0.05         | 0.35<br>0.5  | 0.03 |              | 0.06 | 0.1         | REMAIN. |

FIG. 4A

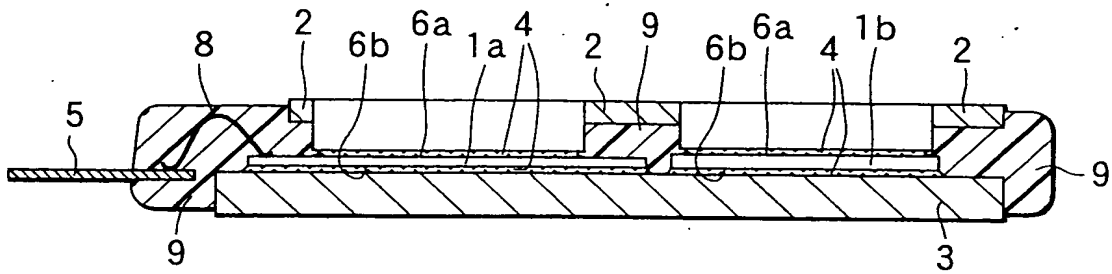


FIG. 4B

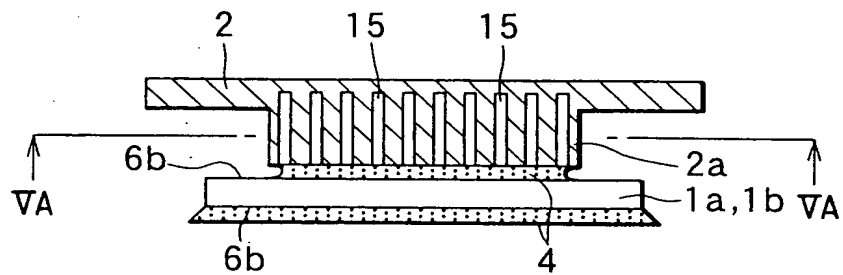


FIG. 4C

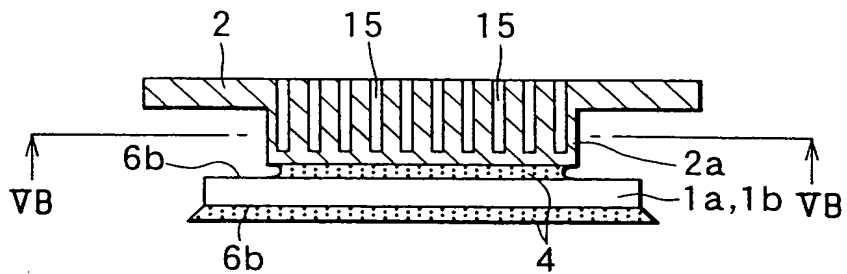
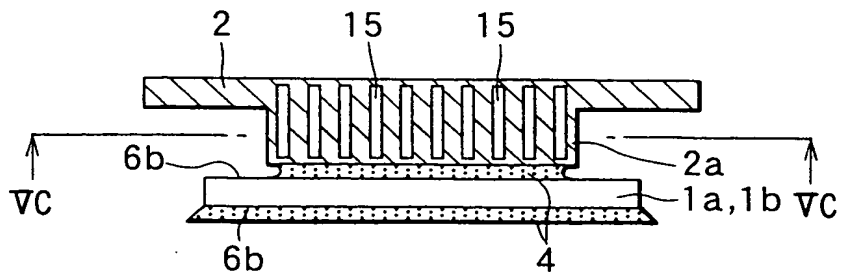
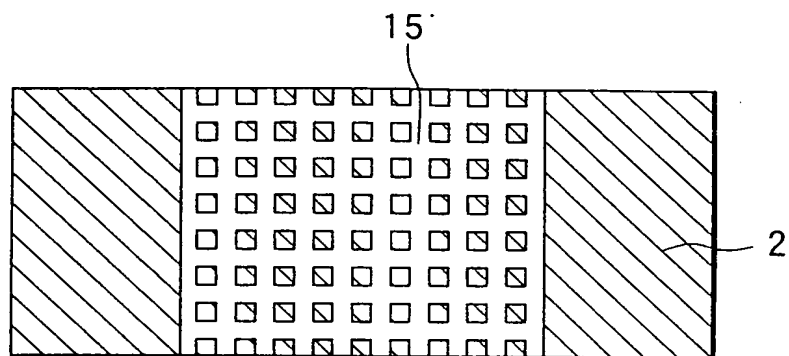


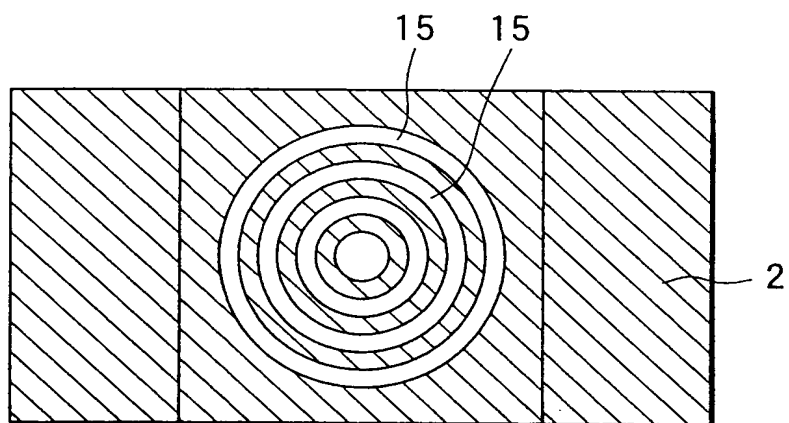
FIG. 4D



**FIG. 5A**



**FIG. 5B**



**FIG. 5C**

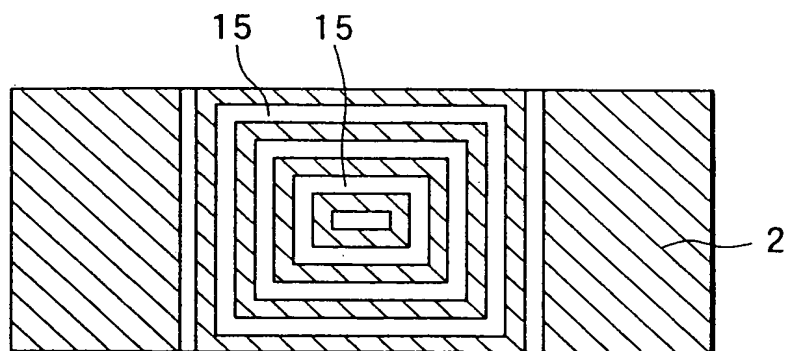


FIG. 6

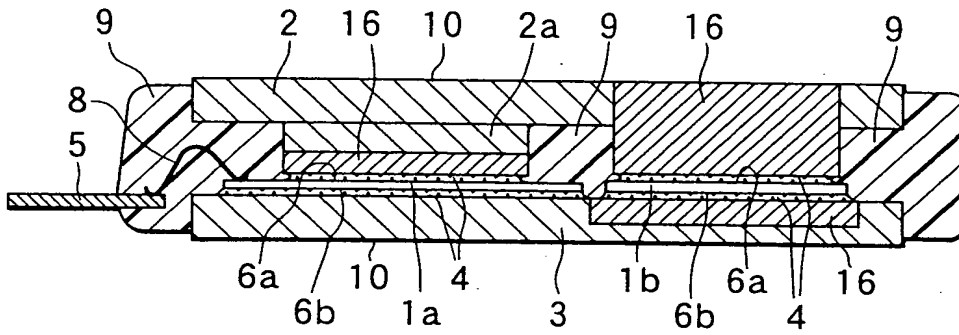
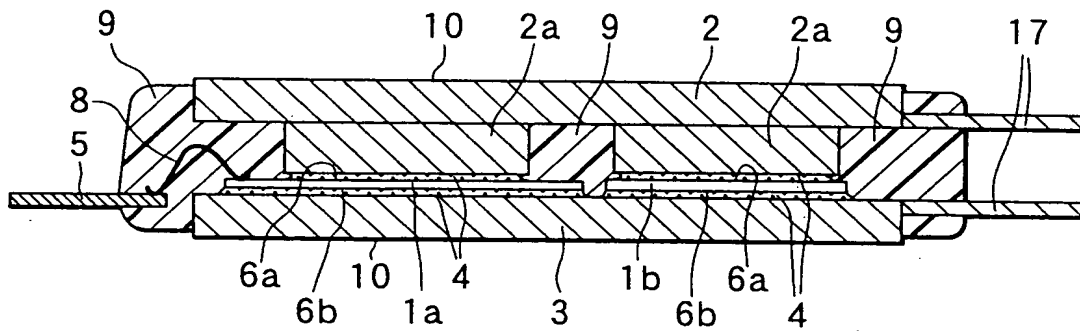
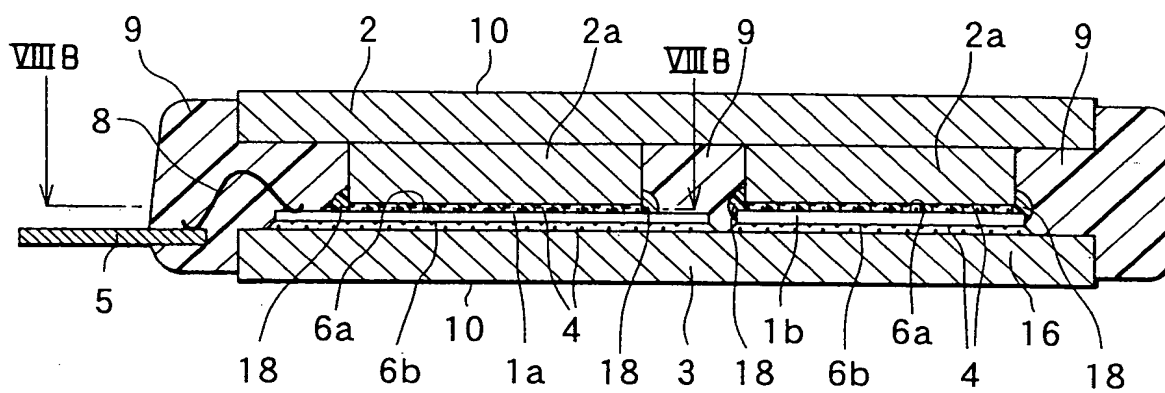


FIG. 7



# FIG. 8A



# FIG. 8B

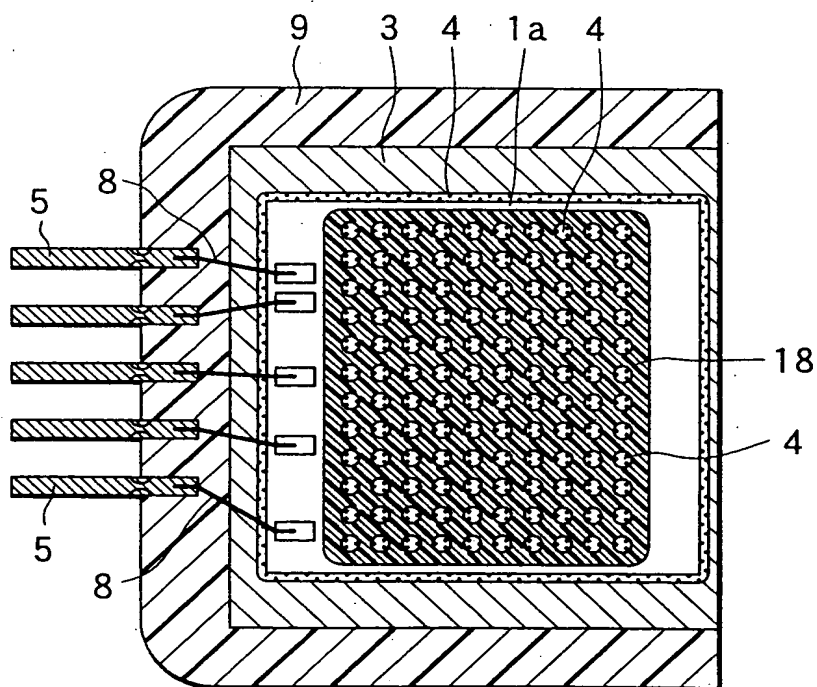


FIG. 9A

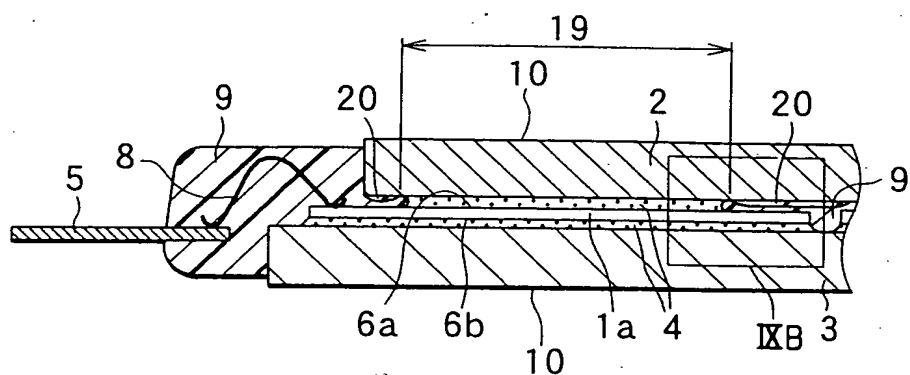


FIG. 9B

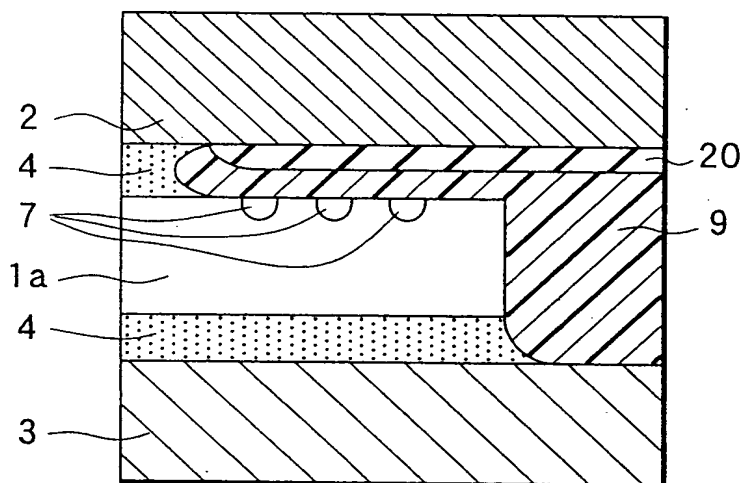
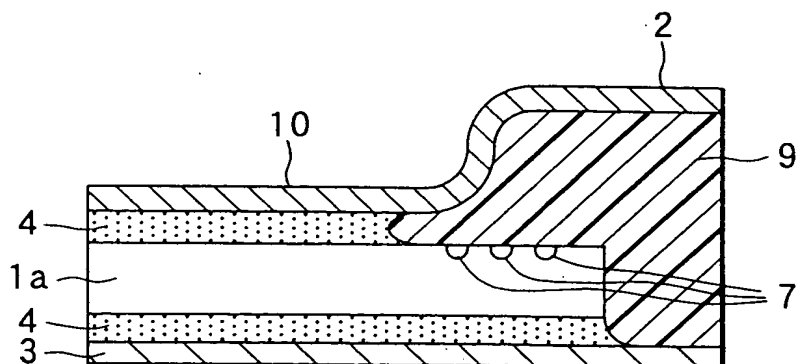
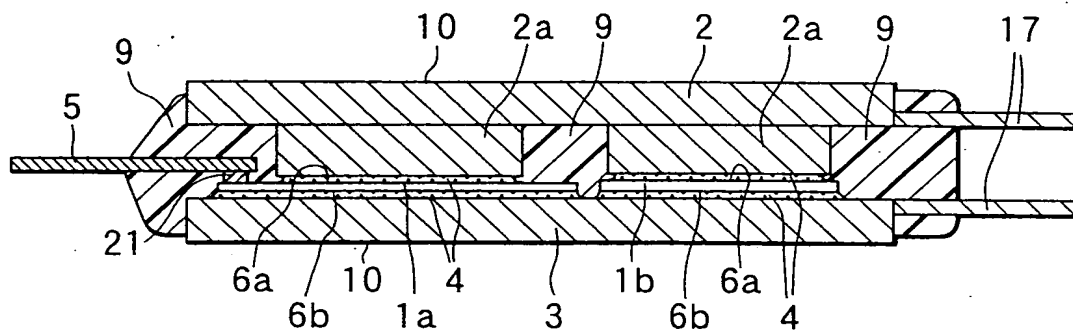


FIG. 9C





# FIG. 10



# FIG. 11

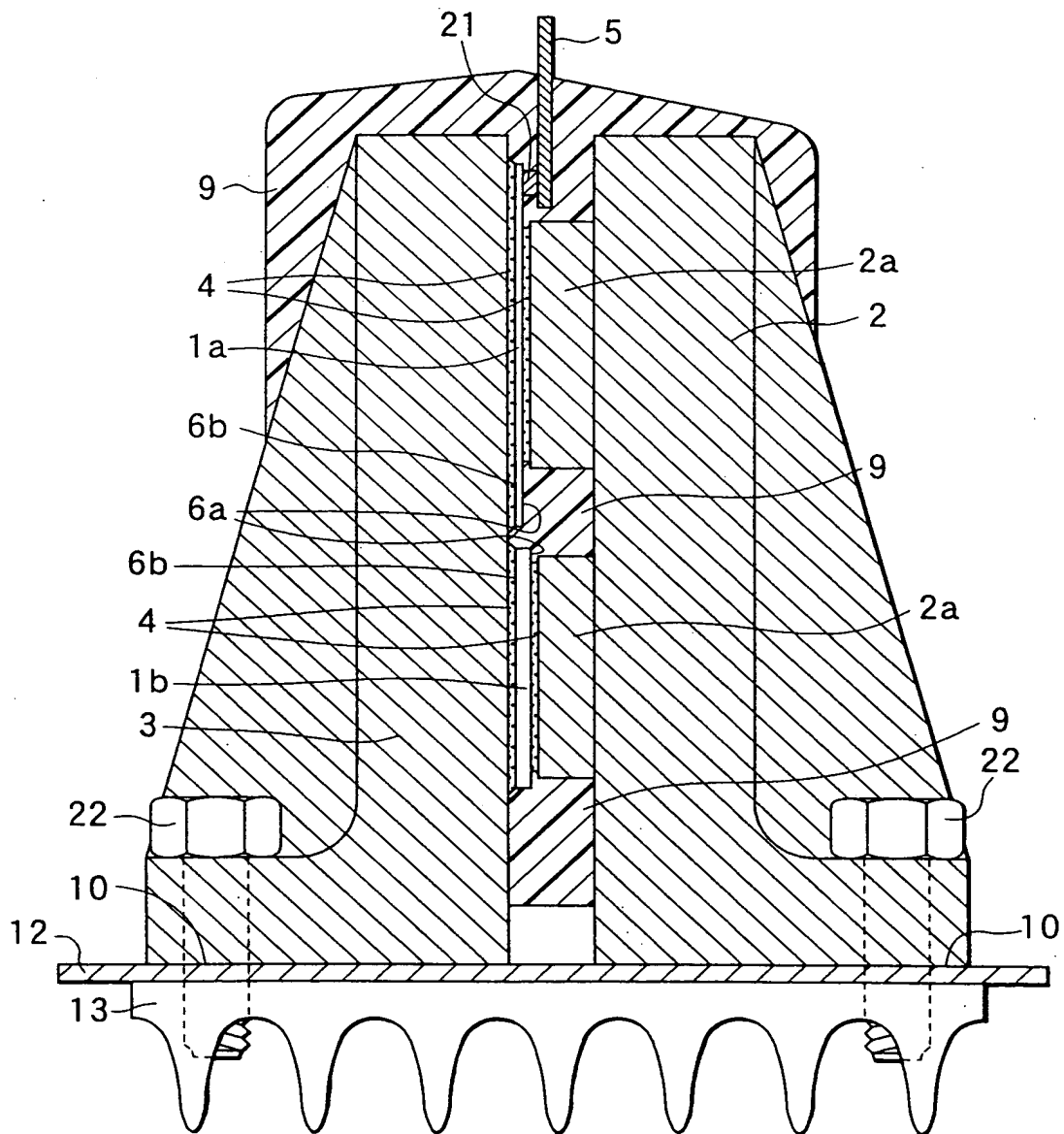


FIG. 12

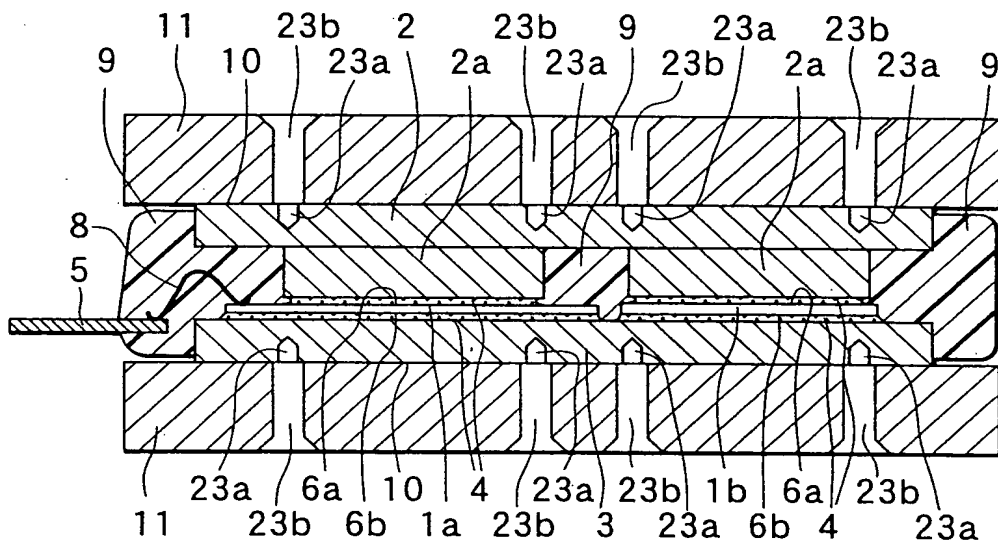


FIG. 13

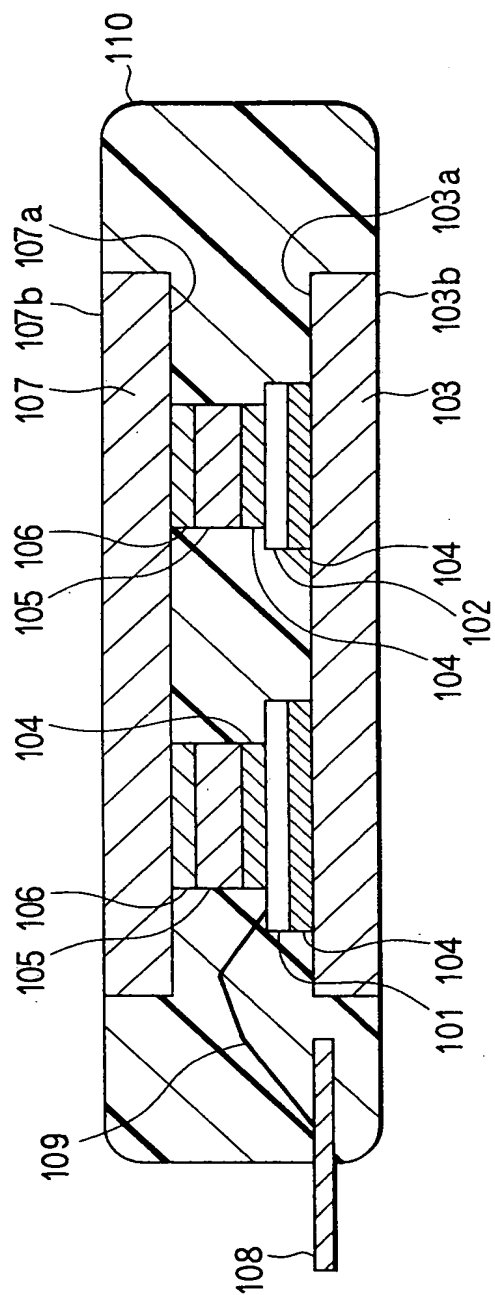


FIG. 14A

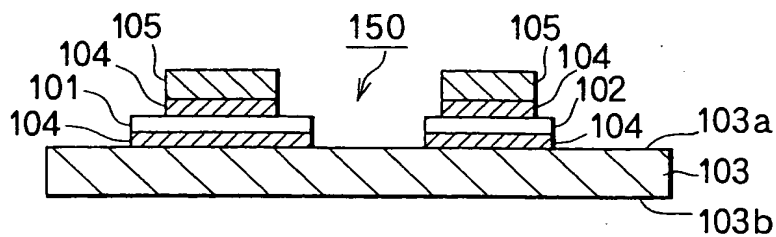


FIG. 14B

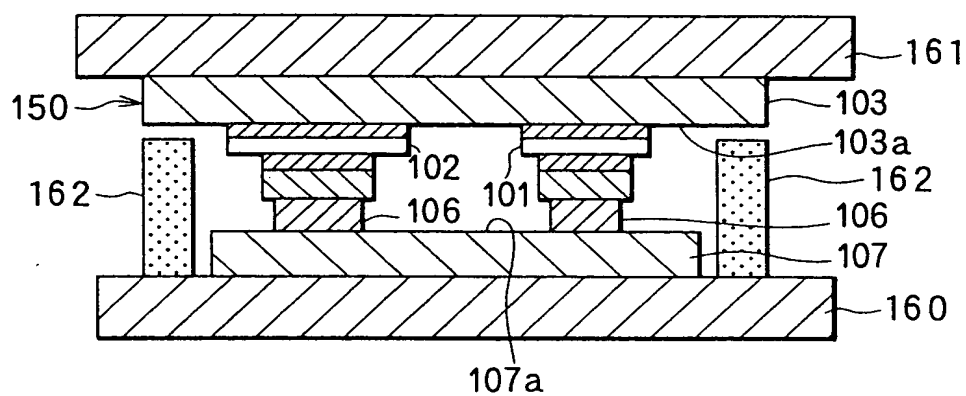


FIG. 14C

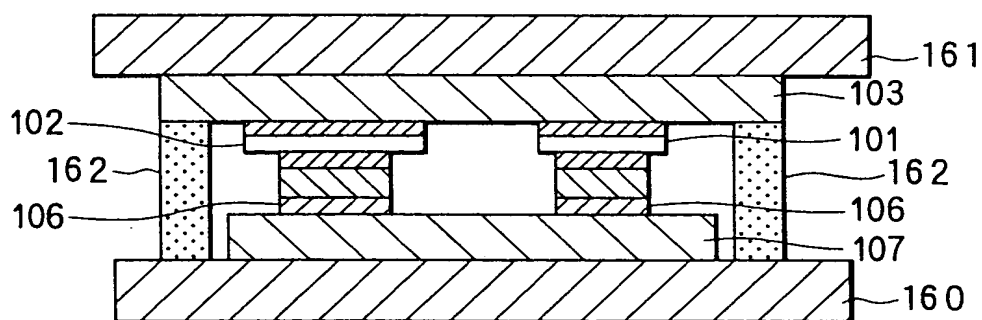


FIG. 15

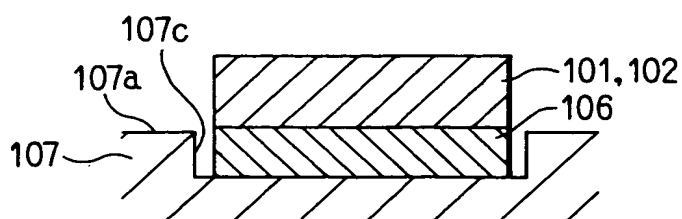


FIG. 16

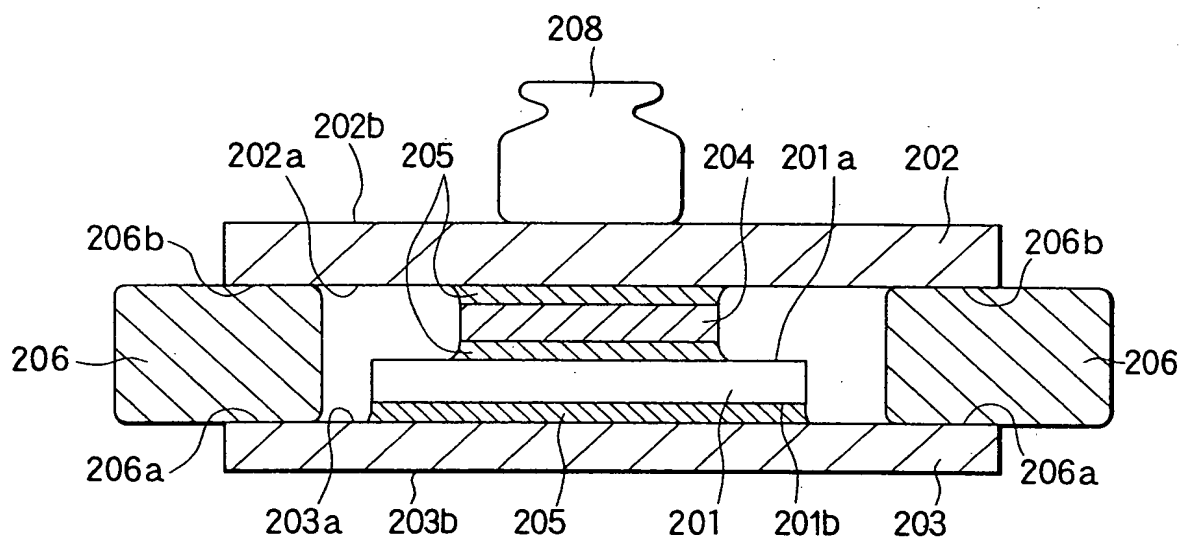


FIG. 17

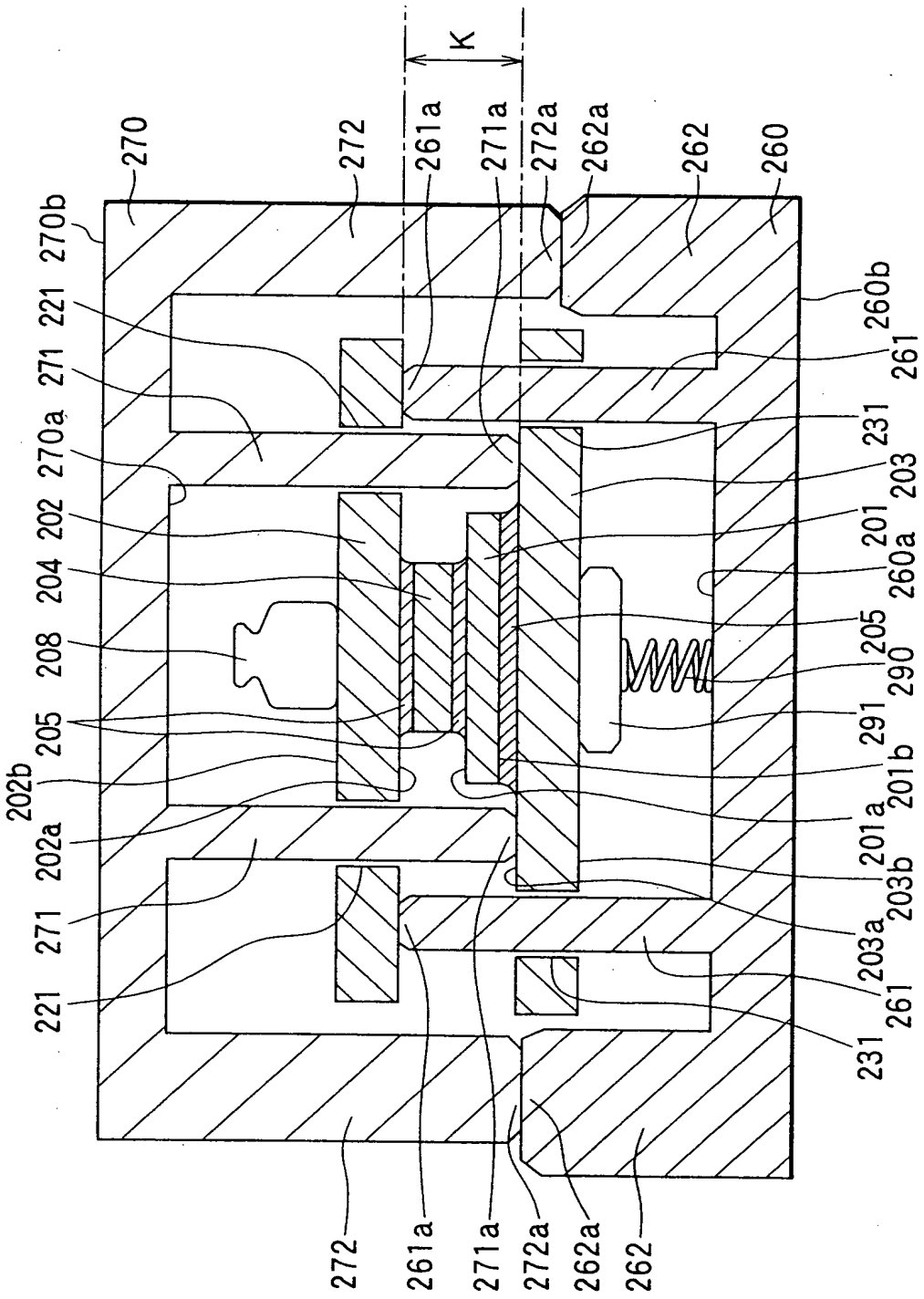


FIG. 18

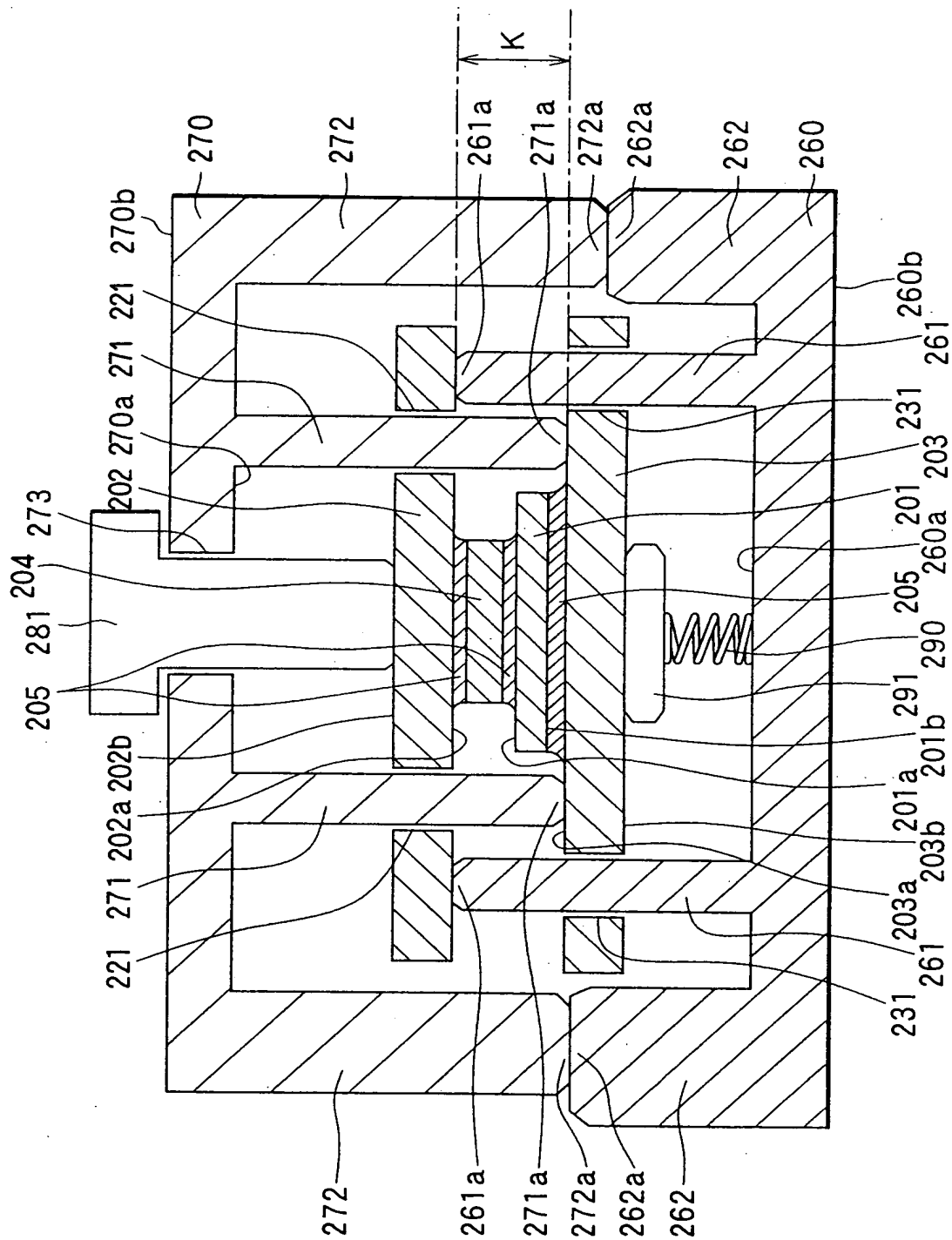
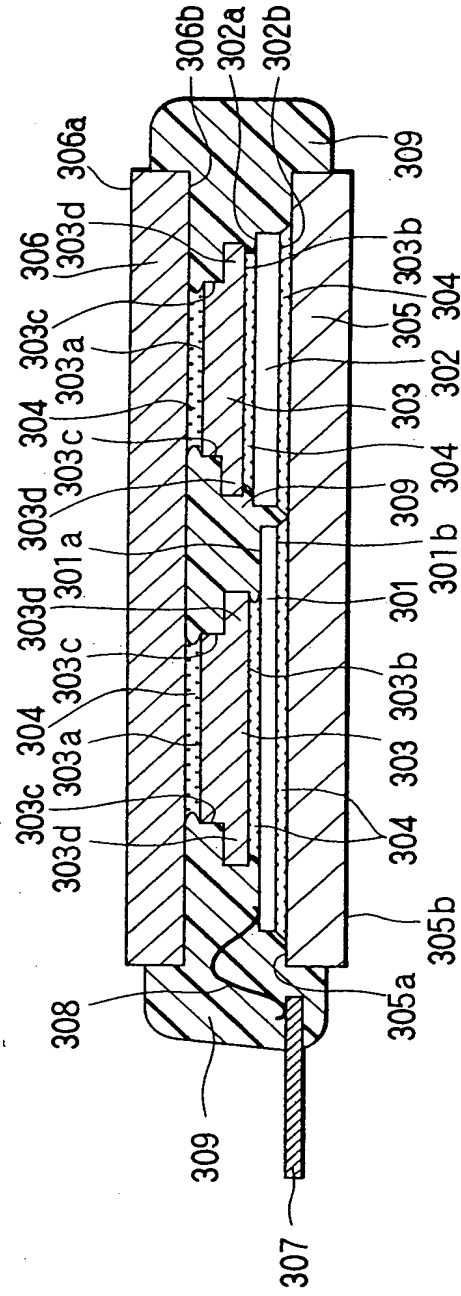
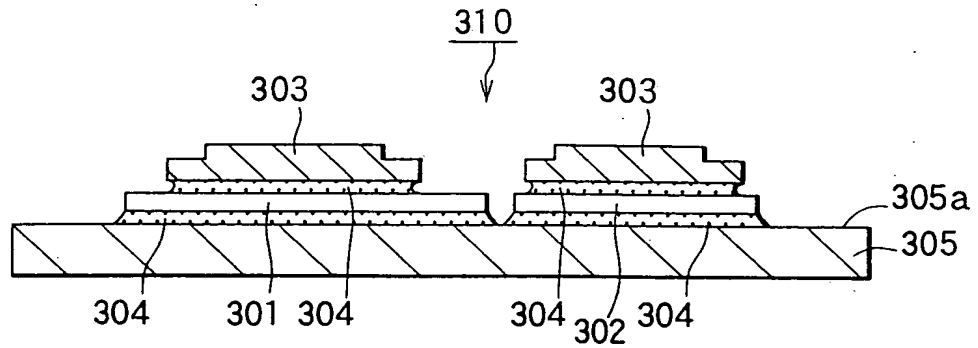


FIG. 19

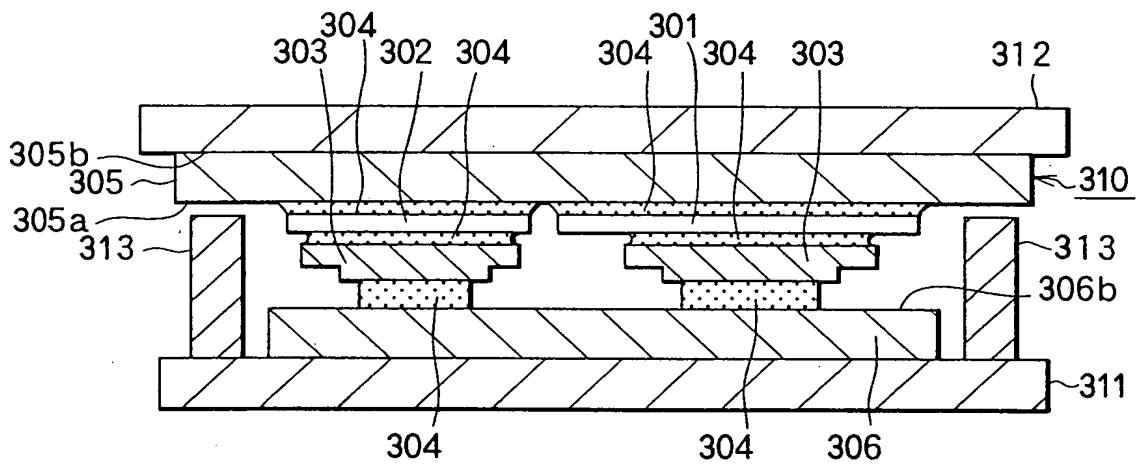




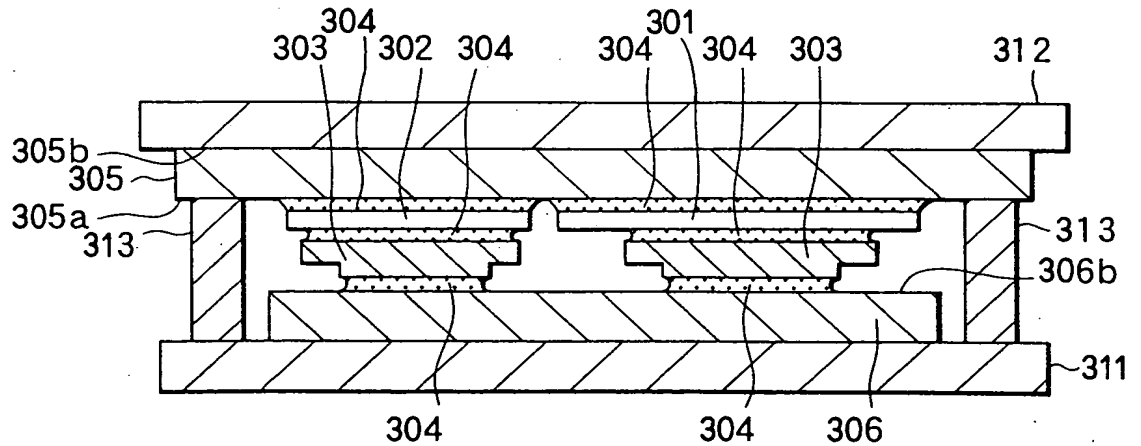
# FIG. 20A



# FIG. 20B

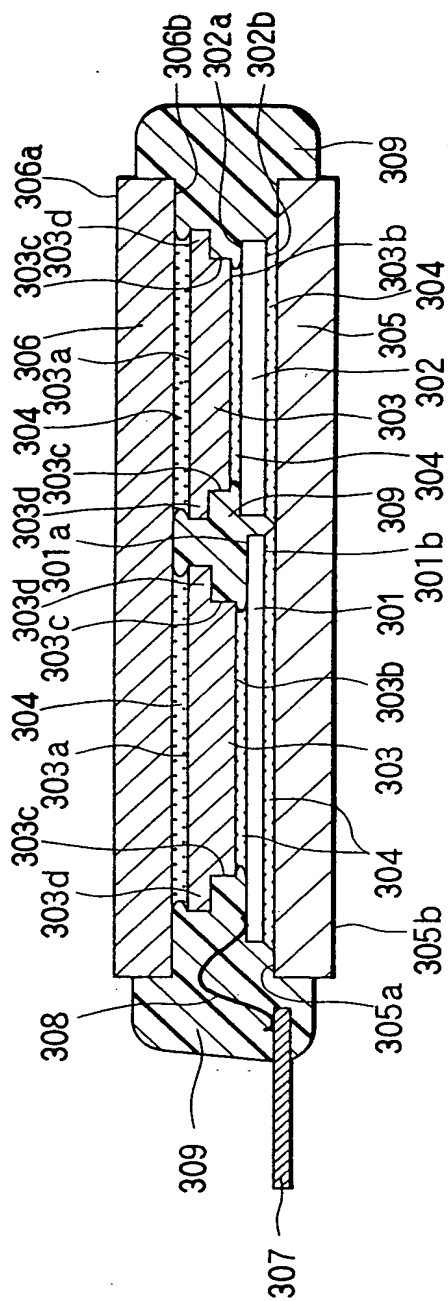


# FIG. 20C





# FIG. 23



# FIG. 24

XXVI

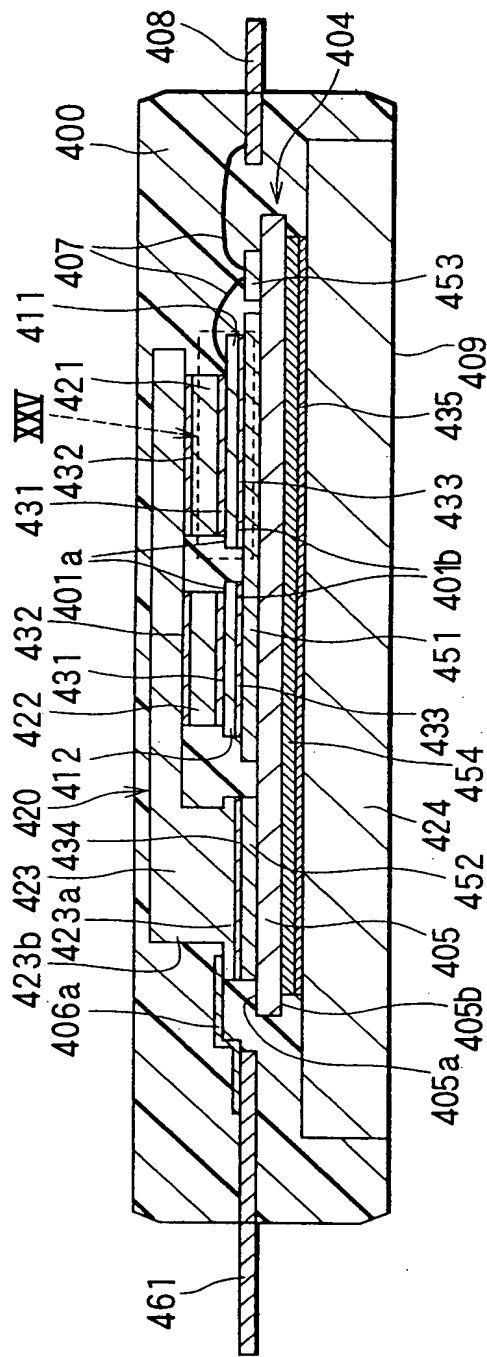


FIG. 25

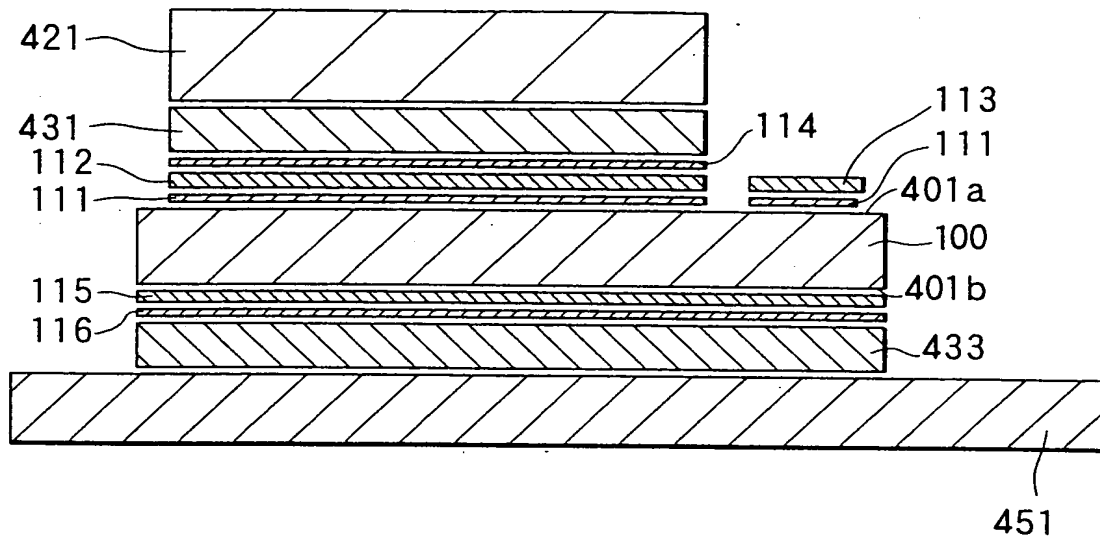


FIG. 26

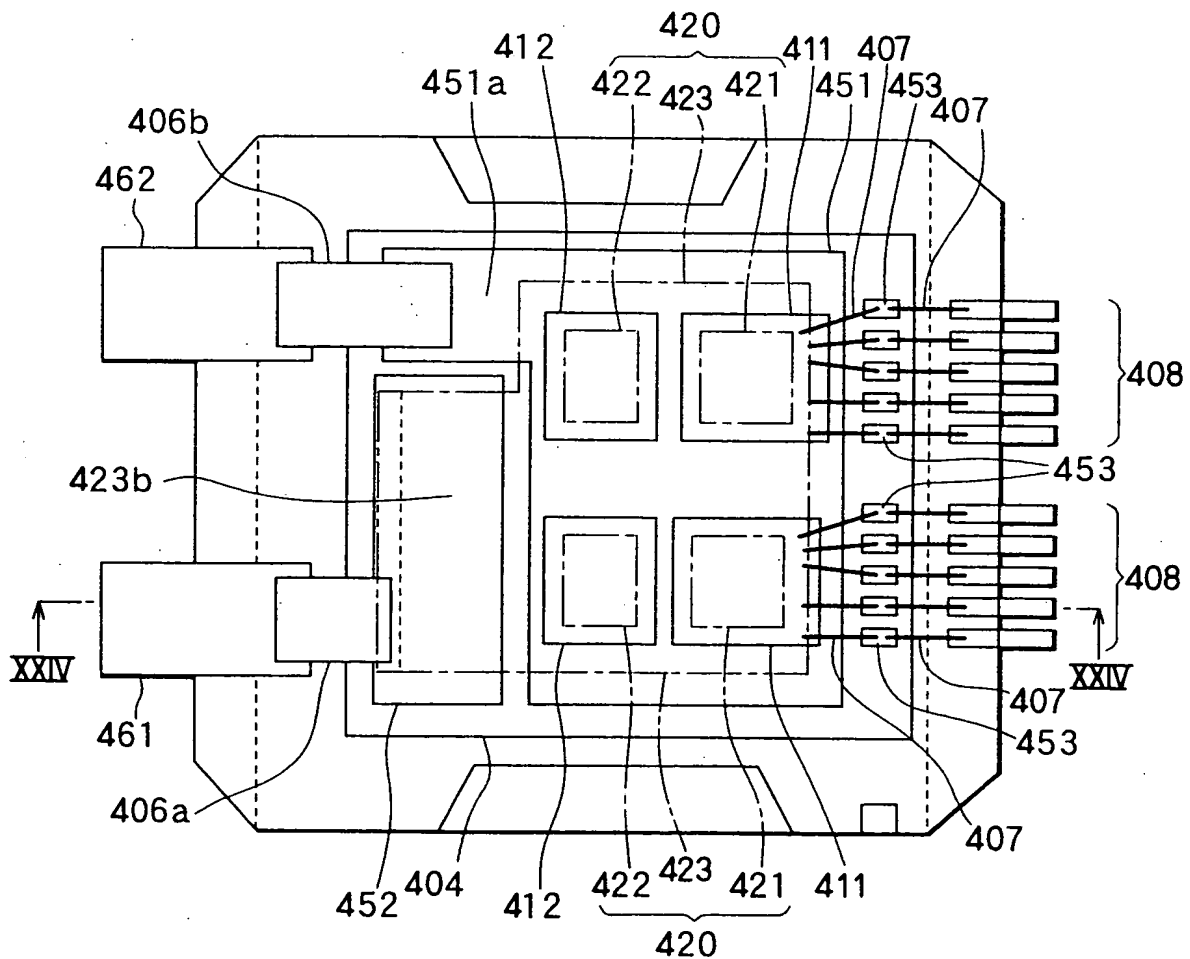


FIG. 27

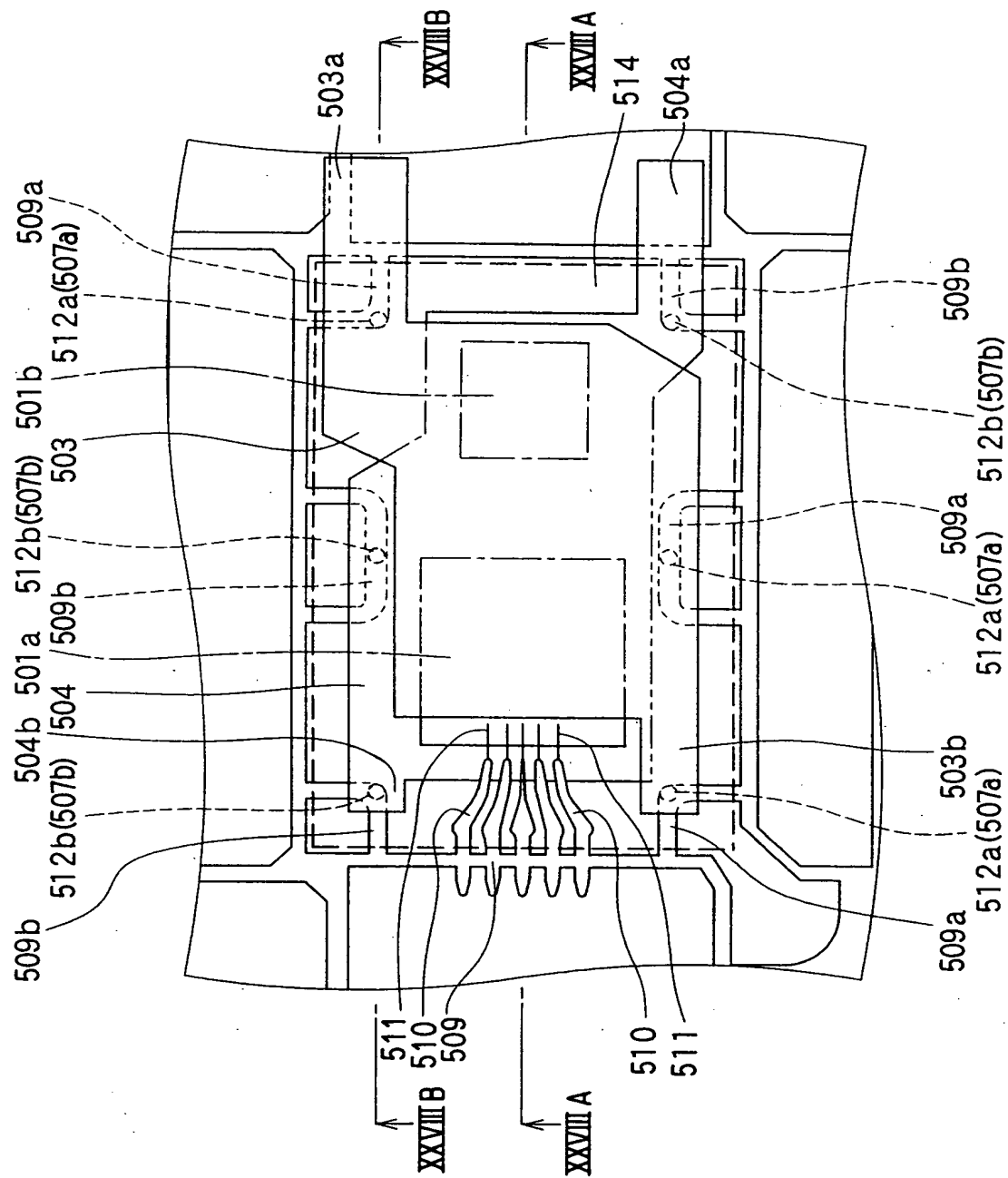




FIG. 30A

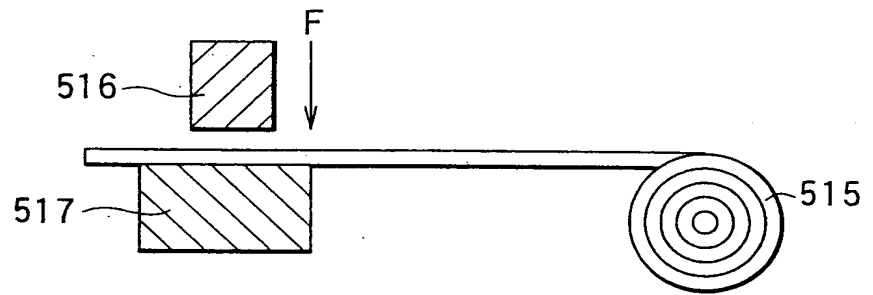


FIG. 30B

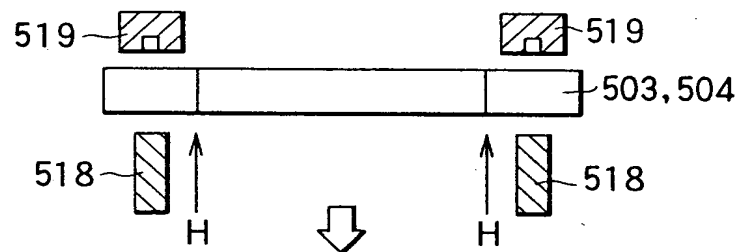


FIG. 30C

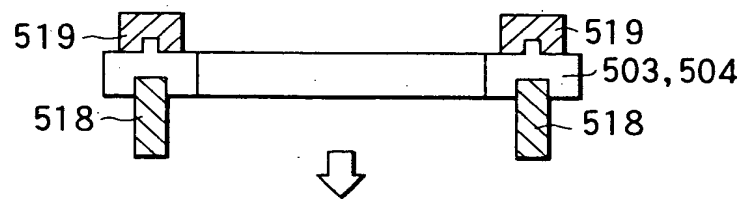
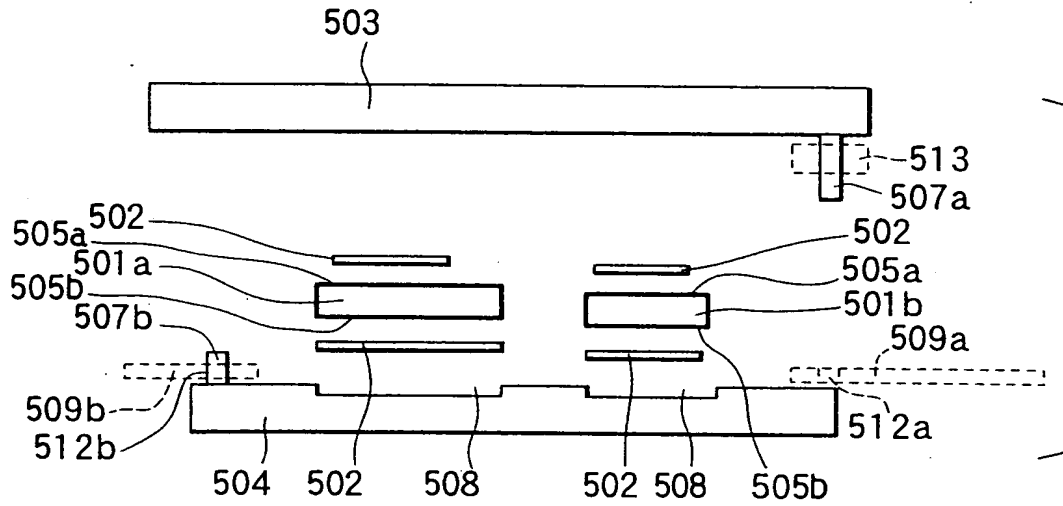


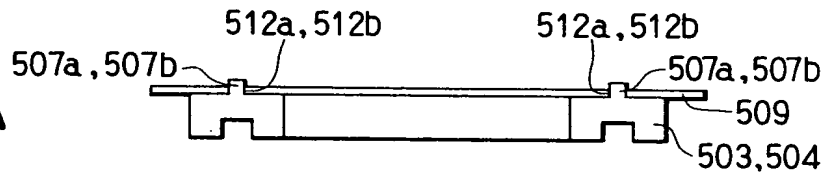
FIG. 30D



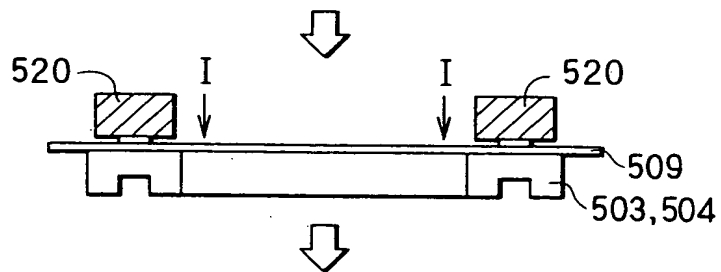
# FIG. 31



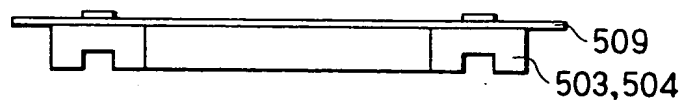
## FIG. 32A



## FIG. 32B

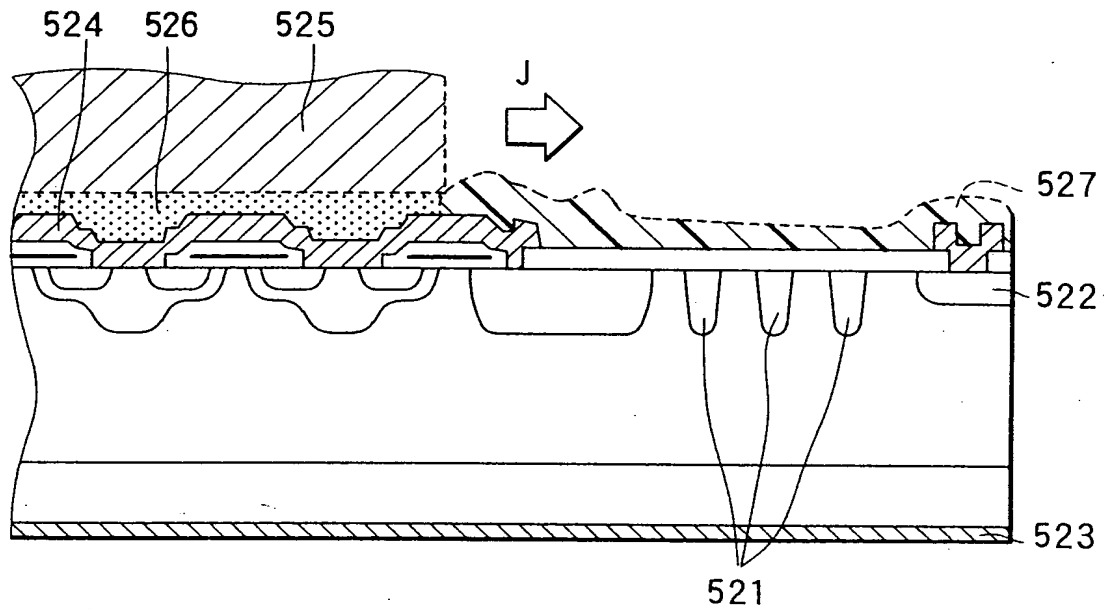


## FIG. 32C





# FIG. 33



# FIG. 34

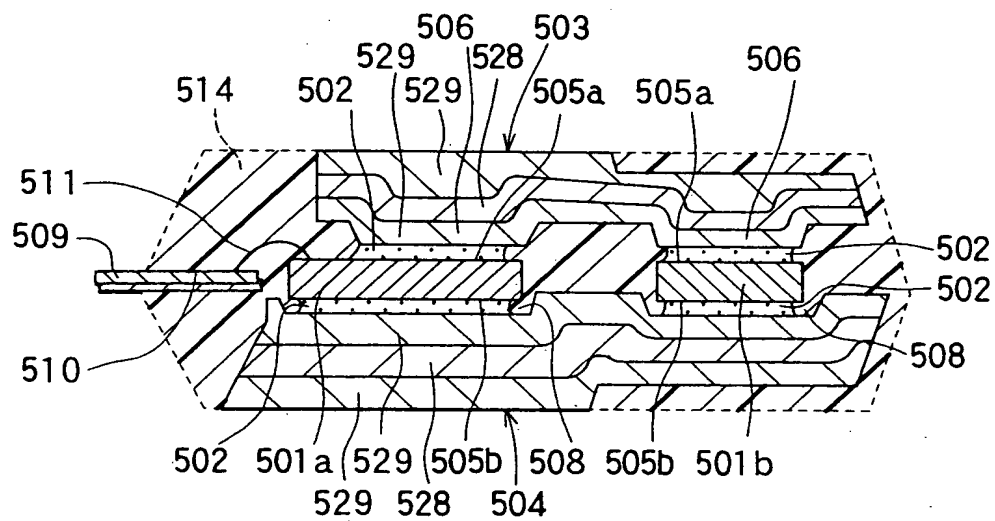


FIG. 35A

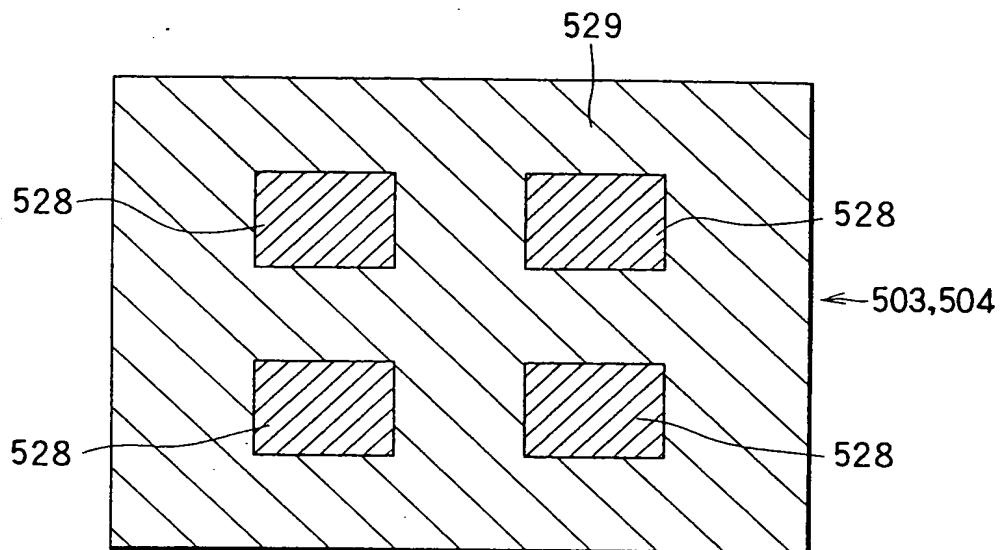


FIG. 35B

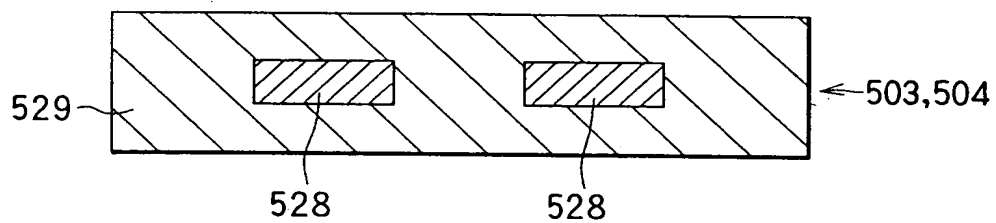


FIG. 36

